FIG. 1

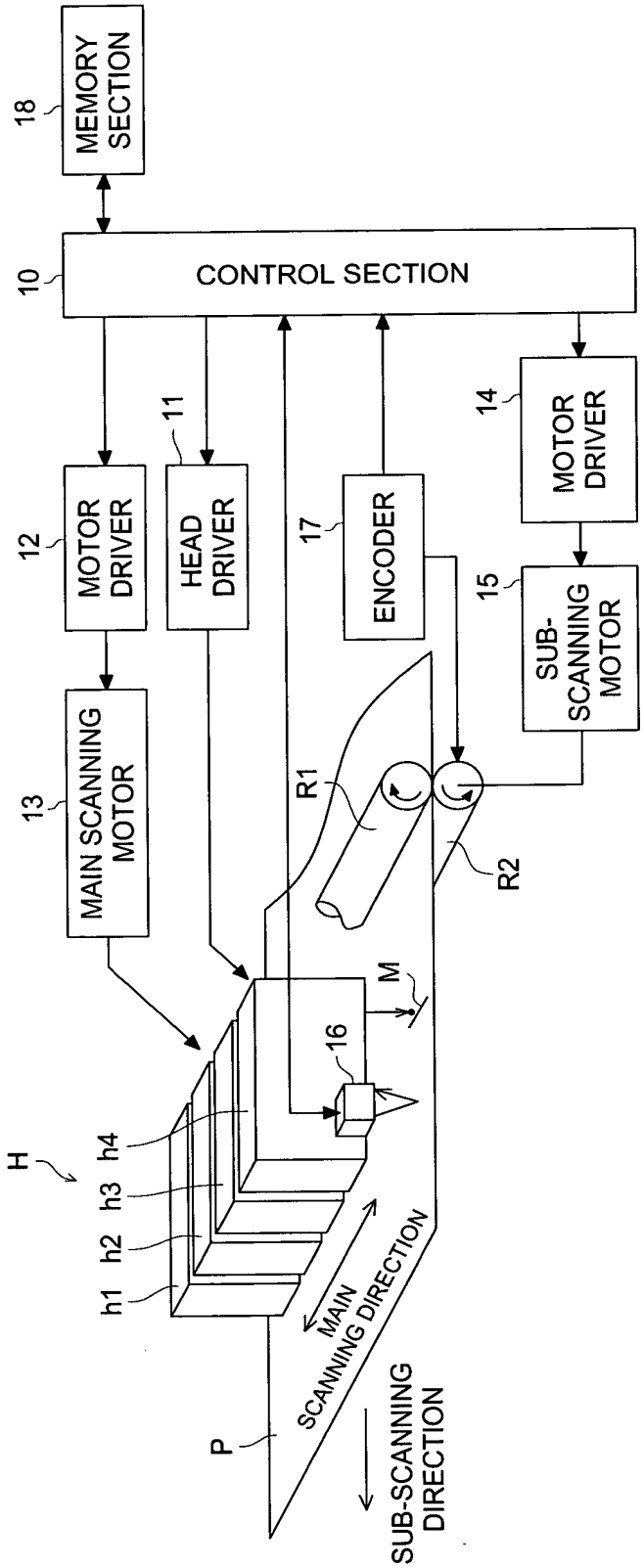
18
MEMORY SECTION
10
CONTROL SECTION
12
MOTOR DRIVER
11
HEAD DRIVER
17
ENCODER
14
MOTOR DRIVER
15
SUB-SCANNING MOTOR
13
MAIN SCANNING MOTOR
R1
R2
M
16
H
h4
h3
h2
h1
MAIN SCANNING DIRECTION
P
SUB-SCANNING DIRECTION

FIG. 2

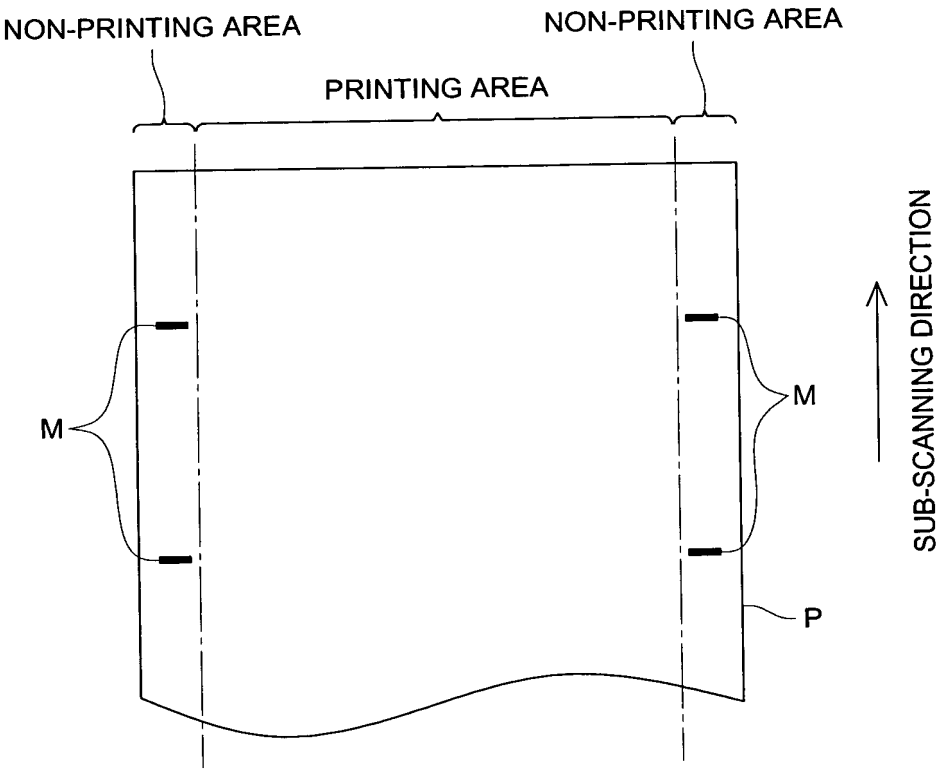
NON-PRINTING AREA
NON-PRINTING AREA
PRINTING AREA
M
M
P
SUB-SCANNING DIRECTION

FIG. 3

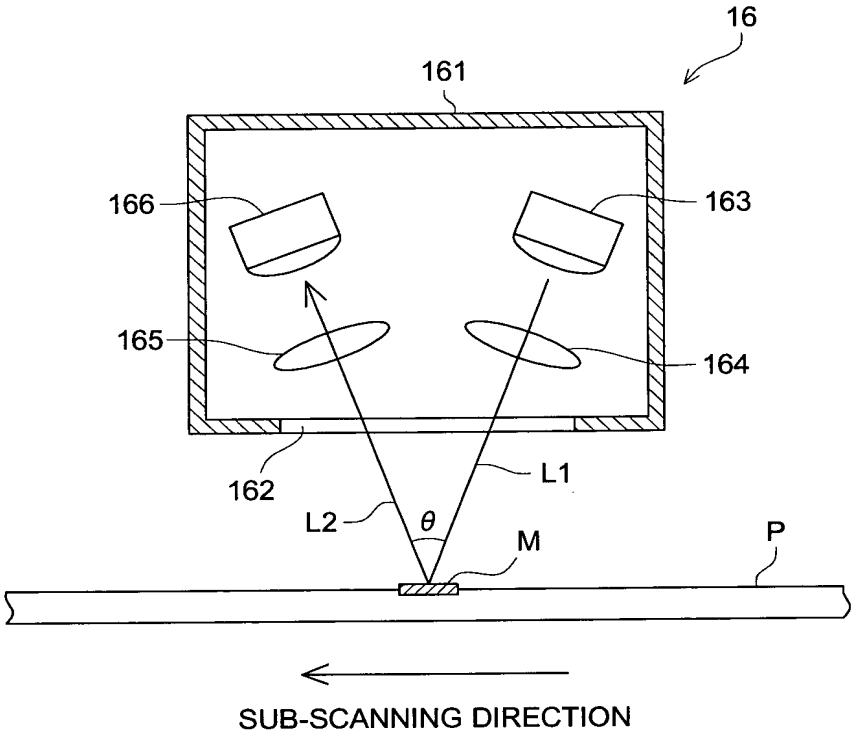

FIG. 4

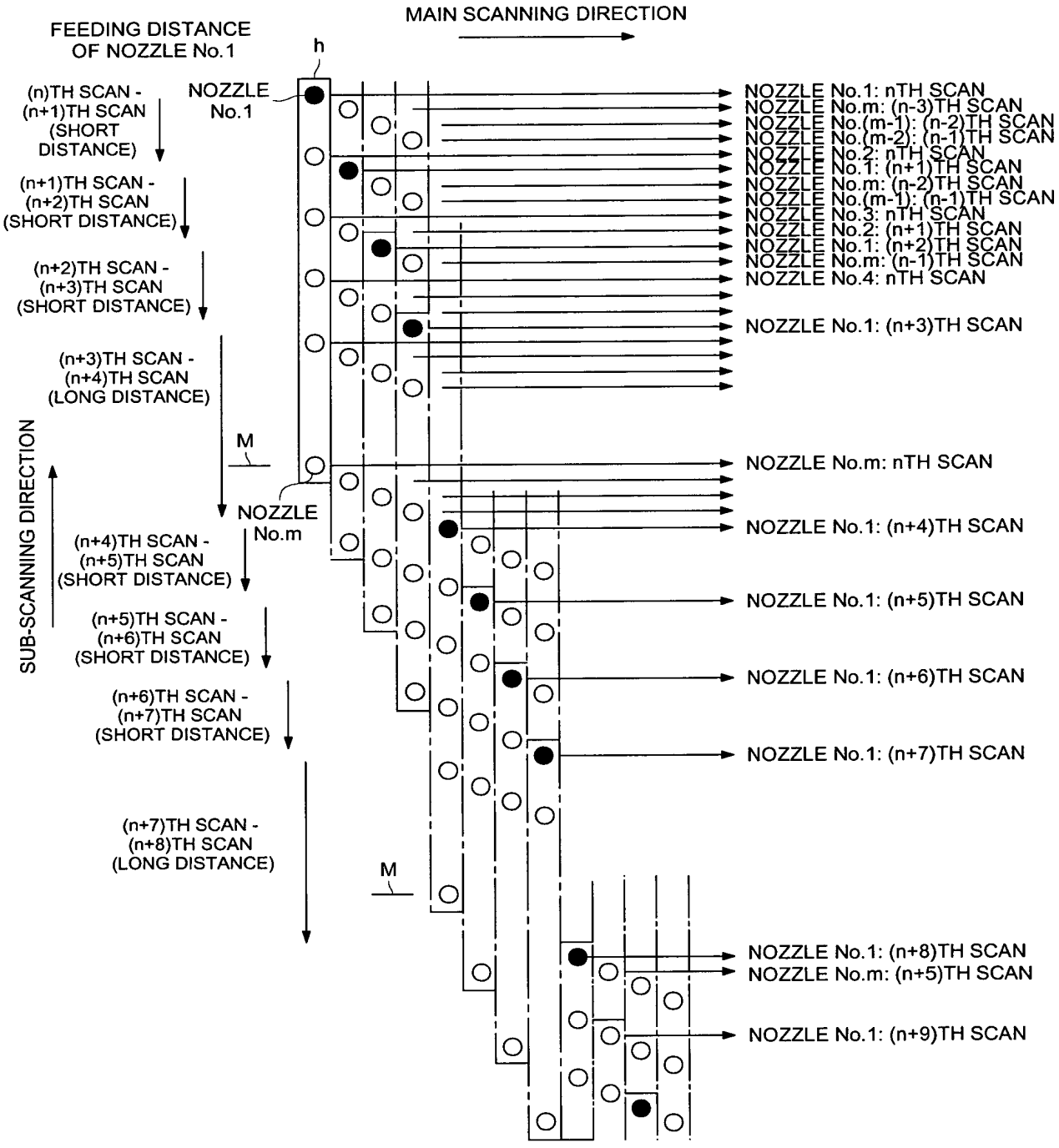
MAIN SCANNING DIRECTION
FEEDING DISTANCE OF NOZZLE No.1
h
NOZZLE No.1
(n)TH SCAN - (n+1)TH SCAN (SHORT DISTANCE)
(n+1)TH SCAN - (n+2)TH SCAN (SHORT DISTANCE)
(n+2)TH SCAN - (n+3)TH SCAN (SHORT DISTANCE)
(n+3)TH SCAN - (n+4)TH SCAN (LONG DISTANCE)
M
NOZZLE No.m
(n+4)TH SCAN - (n+5)TH SCAN (SHORT DISTANCE)
(n+5)TH SCAN - (n+6)TH SCAN (SHORT DISTANCE)
(n+6)TH SCAN - (n+7)TH SCAN (SHORT DISTANCE)
(n+7)TH SCAN - (n+8)TH SCAN (LONG DISTANCE)
M
SUB-SCANNING DIRECTION
NOZZLE No.1: nTH SCAN
NOZZLE No.m: (n-3)TH SCAN
NOZZLE No.(m-1): (n-2)TH SCAN
NOZZLE No.(m-2): (n-1)TH SCAN
NOZZLE No.2: nTH SCAN
NOZZLE No.1: (n+1)TH SCAN
NOZZLE No.m: (n-2)TH SCAN
NOZZLE No.(m-1): (n-1)TH SCAN
NOZZLE No.3: nTH SCAN
NOZZLE No.2: (n+1)TH SCAN
NOZZLE No.1: (n+2)TH SCAN
NOZZLE No.m: (n-1)TH SCAN
NOZZLE No.4: nTH SCAN
NOZZLE No.1: (n+3)TH SCAN
NOZZLE No.m: nTH SCAN
NOZZLE No.1: (n+4)TH SCAN
NOZZLE No.1: (n+5)TH SCAN
NOZZLE No.1: (n+6)TH SCAN
NOZZLE No.1: (n+7)TH SCAN
NOZZLE No.1: (n+8)TH SCAN
NOZZLE No.m: (n+5)TH SCAN
NOZZLE No.1: (n+9)TH SCAN

FIG. 5

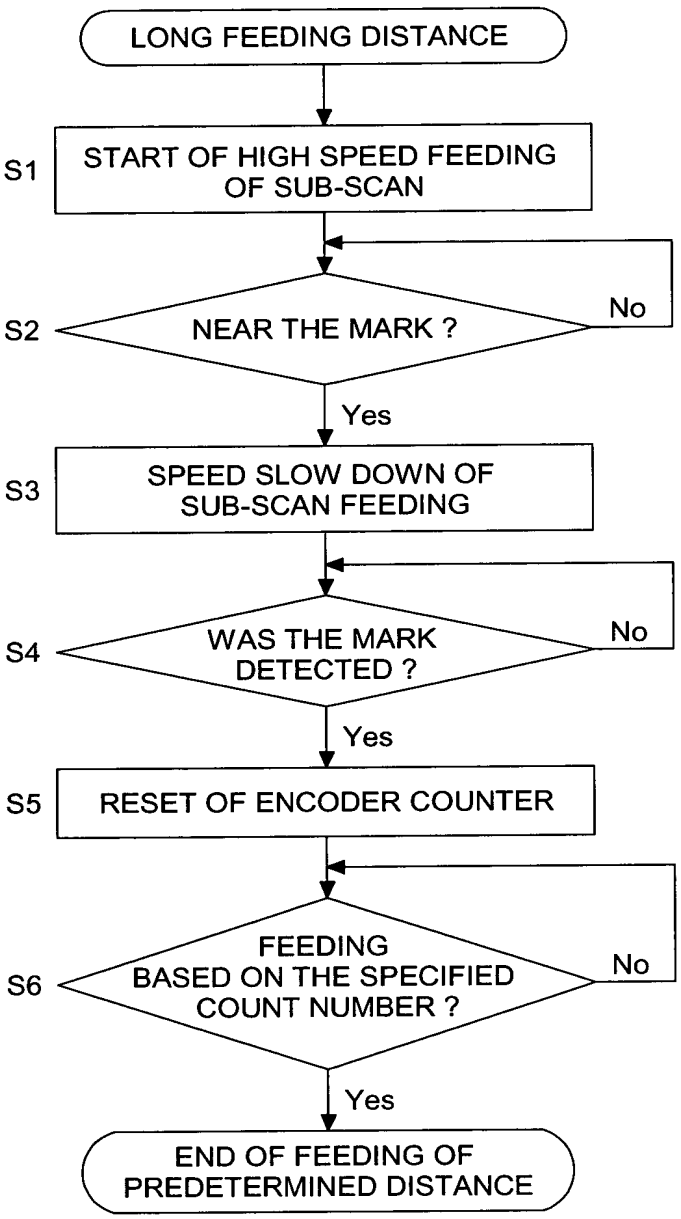
LONG FEEDING DISTANCE
S1
START OF HIGH SPEED FEEDING OF SUB-SCAN
S2
NEAR THE MARK ?
No
Yes
S3
SPEED SLOW DOWN OF SUB-SCAN FEEDING
S4
WAS THE MARK DETECTED ?
No
Yes
S5
RESET OF ENCODER COUNTER
S6
FEEDING BASED ON THE SPECIFIED COUNT NUMBER ?
No
Yes
END OF FEEDING OF PREDETERMINED DISTANCE

FIG. 6

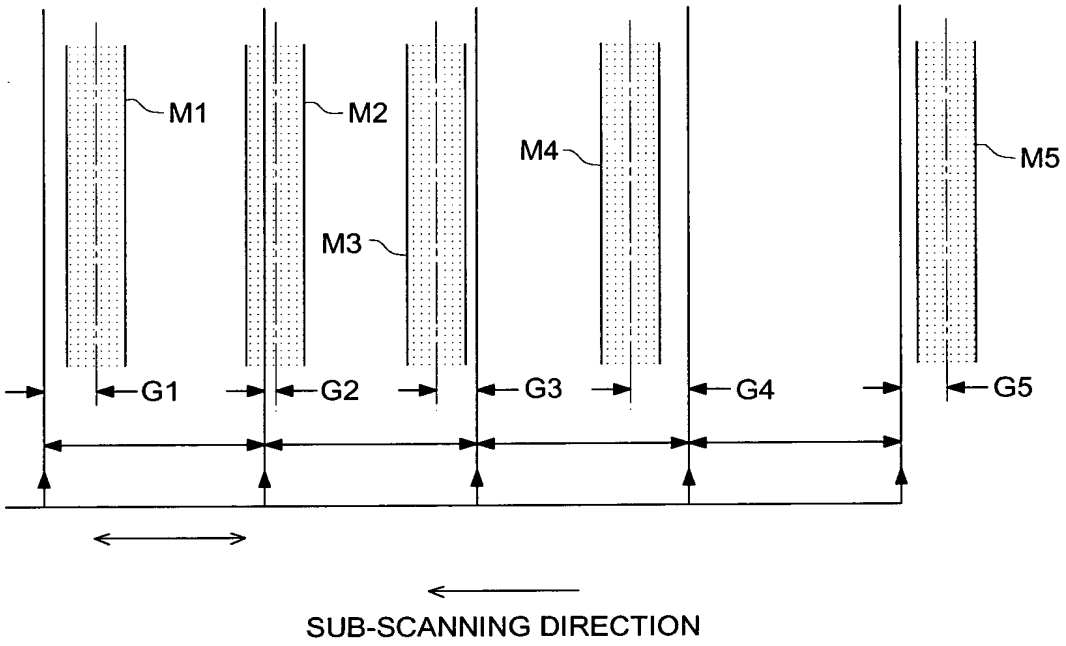
M1
M2
M3
M4
M5
G1
G2
G3
G4
G5
SUB-SCANNING DIRECTION

FIG. 7

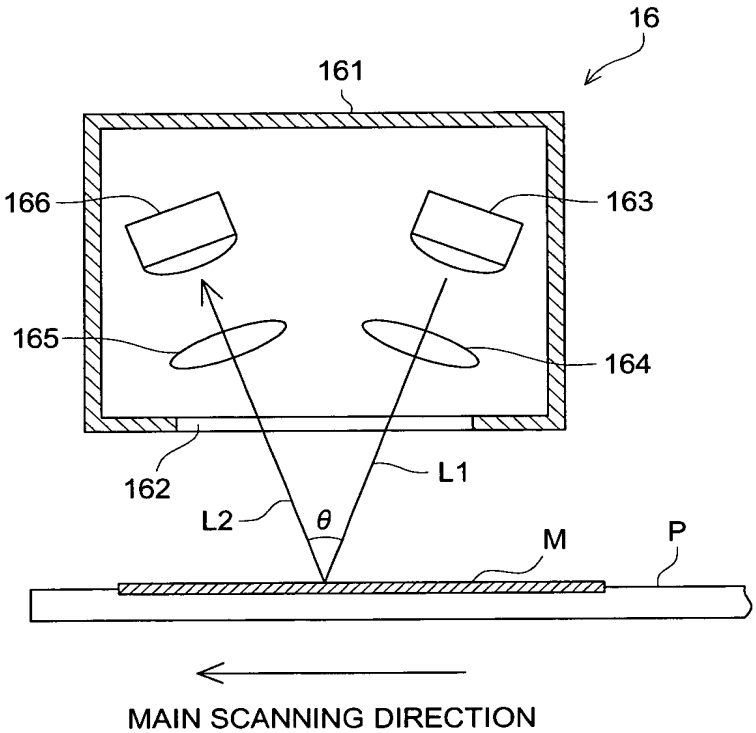
16
161
166
163
165
164
162
L1
L2
θ
M
P
MAIN SCANNING DIRECTION

FIG. 8

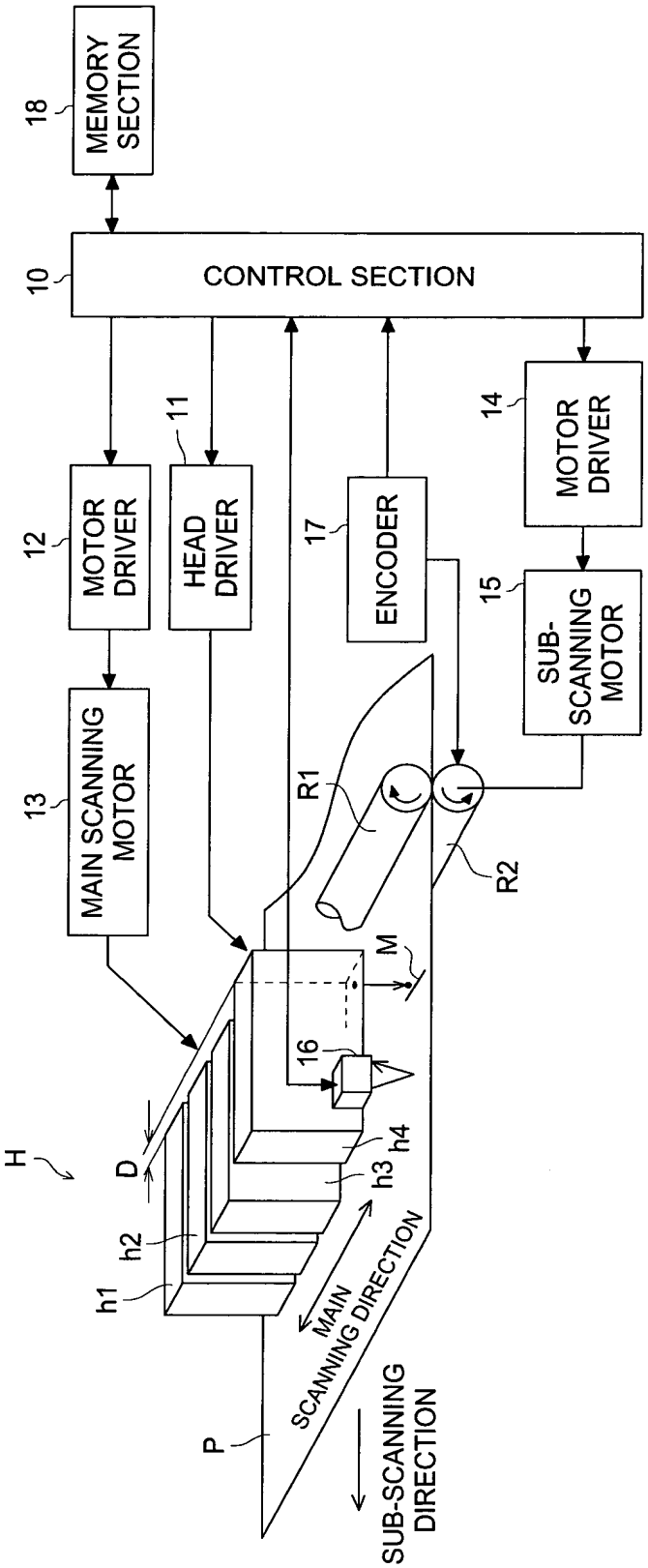
18
MEMORY SECTION
10
CONTROL SECTION
12
MOTOR DRIVER
11
HEAD DRIVER
17
ENCODER
14
MOTOR DRIVER
15
SUB-SCANNING MOTOR
13
MAIN SCANNING MOTOR
R1
R2
M
16
H
D
h1
h2
h3
h4
P
MAIN SCANNING DIRECTION
SUB-SCANNING DIRECTION

FIG. 9

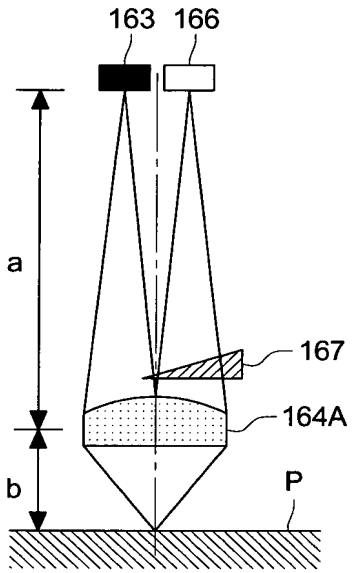

FIG. 10

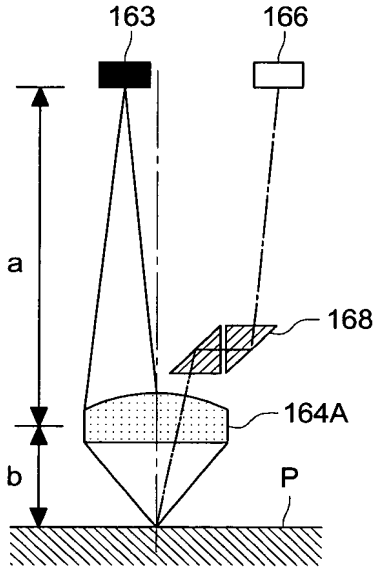

FIG. 11 (a)

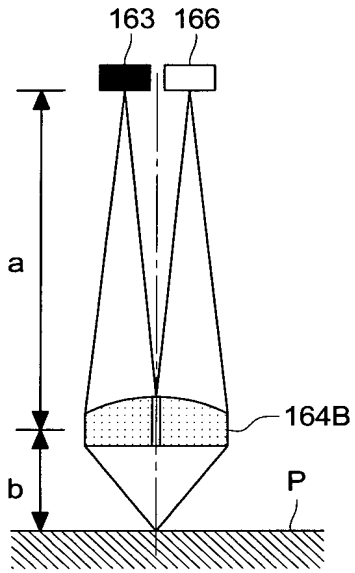
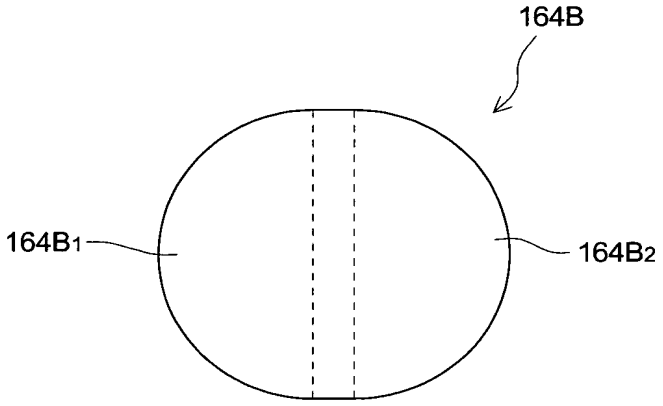
FIG. 11 (b)